

Amendments to the Claims:

This listing of claims will replace all prior versions, and listings, of claims in the application.

1-3. (Canceled)

4. (Currently Amended) A ~~self-contained~~ handheld, powered interactive physical display apparatus ~~operable to at least provide physical outputs responsive to at least local user inputs, said apparatus comprising:~~

at least one electrical energy source in the handheld apparatus; ~~that provides power to the apparatus;~~

multiple input transducers ~~at least one transducer~~ in the handheld apparatus, which receives at least one input from a local user and produces at least an input signal;

one or more wireless transceivers in the handheld apparatus;

at least one electrically powered tactile stimuli output component in the handheld apparatus for outputting stimuli perceptible by touch;

at least one storage medium in the handheld apparatus having at least one program stored therein, and

at least one processor in the handheld apparatus operatively connected with said at least one energy source, at least one of said multiple input ~~at least one~~ transducers, said one or more wireless transceivers, said at least one tactile stimuli output component, and said at least one storage medium; and

said at least one processor interpretings at least said one local input signal according to said at least one program and determininges at least one output signal; and wherein said apparatus outputs at least tactile stimuli to said local user, at least in response to said user's input in a stand-alone mode without input from an external processor.

5-10. (Canceled)

11. (Currently Amended) The apparatus of claim 4, further comprising a program stored in said at least one storage medium for interpretation by said at least one processor to generate a wireless transmission signals using said one or more wireless transceivers ~~means~~ for remotely controlling ~~other~~ an external devices.

12-18. (Canceled)

19. (Previously Presented) The apparatus of claim 4, further comprising at least one means for recording and playing back information.

20-25. (Canceled)

26. (Currently Amended) The apparatus of claim 4, ~~further comprising~~ wherein said at least one processor is configured to ~~be capable of~~ directing said one or more transceivers to transmit and receive ~~at least tactile~~ signals between the apparatus and an external processor ~~said remote apparatuses to and from a remote distinct apparatus or to and from a remote corresponding apparatus operated by another user at least during any time during the course of a communications link with said another user or a communication network, and wherein said apparatus processes input signals and causes a tactile stimuli output to said local user in response to an input signal from said another user's input or in response to a signal from said remote apparatuses .~~

27-29. (Cancelled)

30. (Currently Amended) The apparatus of claim 4, further comprising a program wherein stored in said at least one storage medium for interpretation by said at least one processor to generate ~~or another storage medium, stores at least one single-user tactile enhanced entertainment application~~ having tactile output.

31. (Currently Amended) A system comprising the apparatus of claim 26 and a remote device,
~~further comprises~~ a communication connection between the apparatus and remote device, to the
at least one remote ~~apparatus device~~ capable of storing input and output signals and other data,
including at least one application program that allows multiple remote users to ~~intermittently~~
play ~~at least one tactile enhanced~~ a non-realtime application having tactile output.

32-37. (Canceled)

38. (Currently Amended) The apparatus of claim 4, ~~wherein the apparatus is a handheld device~~
further comprising a user ~~replaceable~~ installable or coverable outer covering ~~of covering~~ at least
a portion of the apparatus. ~~thereby allowing the installation of different or additional outer~~
~~coverings.~~

39. (Currently Amended) The apparatus of claim 4, further ~~comprises~~ comprising at least one
visual display and wherein at least one of said multiple input transducers is a motion input
transducer which senses at least one local user motion and produces at least one motion input
signal, wherein said apparatus is operable to output at least a visible change in said visual
display, at least in response to said local user's motion input signal.

40. (Currently Amended) The apparatus of claim 4, ~~further comprising one or more transducers~~
wherein at least one of said multiple input transducers is configured to sense motion inputs from
a local user and produce at least one motion input signal.

41. (Previously Presented) The apparatus of claim 4, further comprising a voice command
system.

42. (Previously Presented) The apparatus of claim 4, further comprising at least one system for
devising the location of said apparatus.

43. (Currently Amended) A system comprising the apparatus of claim 39 and a remote device,
~~further comprising~~ said at least one processor configured to be capable of directing said one or
more wireless transceivers to transmit and receive at least motion input signals to and from said
device ~~a remote distinct apparatus or to and from a remote corresponding apparatus operated by~~
~~another user at least during the course of a communications link with said another user or while~~
connected to a communication network.

44. (Currently Amended) The apparatus of claim 4, ~~further comprising~~ wherein said multiple
input transducers comprises at least one video-motion transducer operable to sense motion input
and produce motion input signals and therewith display at least responsive visual information.

45-46. (Cancelled)

47. (Previously Presented) The apparatus of claim 4, further comprising at least one ~~video~~
camera and at least one visual display.

48. (Currently Amended) The apparatus of claim 4, ~~further comprising~~ wherein said multiple
input transducers comprises at least one ~~hybrid visual display and tactile input transducer~~
touchscreen.

49. (Cancelled)

50. (Currently Amended) The apparatuses of claim 4 ~~and 49,~~ ~~further comprising~~ wherein said
multiple input transducers comprises at least one vital sign input transducer which receives at
least one vital sign input from said local user and produces at least one vital input signal.

51. (Currently Amended) A handheld ~~self-contained~~ powered interactive physical display apparatus, comprising: at least one energy source that provides power to the apparatus; at least one vital sign transducer, said apparatus configured to sense at least one vital sign input of a local user and produce a vital sign input signal; at least one physical sensation output component, capable of outputting one or more types of stimuli that cause a bio-physical change to a portion of said user's limbs, organs or body, said at least one physical sensation output selected from a group consisting of one or more of electrical, electronic, light, thermal, infrared, electro-mechanical, electro-magnetic, sound, taste, smell, hydraulic, pneumatic, and radio frequency; at least one system for devising the location of said apparatus; at least one storage medium having at least one program stored therein; at least one transceiver; at least one processor operatively connected with said at least one energy source, said at least one vital sign transducer, said at least one storage medium, said at least one physical output display, said at least one location system, said at least one storage medium, and said at least one transceiver; said processor interprets at least said vital sign input signal and determines output signals at least according to said at least one program; said at least one processor further configured to be capable of directing said at least one transceiver to transmit and receive signals to and from a remote apparatus; and wherein said apparatus outputs at least one of said stimuli to a portion of said local user's body in response to ~~an apparatus onboard output signal or in response from a signal from said remote apparatus~~ said vital sign input signal in a stand-alone mode without input from an external processor.

52. (Currently Amended) The apparatus of claim 51, further comprising at least one operatively connected motion transducer, which receives motion input from a local user and produces motion input signals, wherein said stimuli response is to said motion input signals and in response to said vital sign signals as processed locally ~~or in response to signals received from said remote apparatus.~~

53. (Currently Amended) A ~~self-contained~~ handheld powered interactive physical display apparatus, comprising:

at least one energy source in the handheld apparatus that provides power to the apparatus;

multiple input transducers in the handheld apparatus or operatively connected,

~~the apparatus configured to receive at least external inputs,~~ including at least one ~~machine~~ sensible brain wave input transducer that senses brain waves of a local user and produces at least one brain wave input signal;

at least one visual display in the handheld apparatus;

at least one storage medium in the handheld apparatus having at least one program stored therein;

at least one transceiver in the handheld apparatus;

at least one processor in the handheld apparatus operatively connected with said at least one energy source, said at least one brain wave input transducer, said at least one visual display, said at least one storage medium, and said at least one transceiver,

said at least one processor interprets at least said brain wave input signals and determines and sends an output signals at least according to said at least ~~the~~ one program; ~~and wherein said apparatus operable to at least said visual display in a stand-alone mode without connection to an external processor.~~ at least visual output at least in response to said local user's brain wave input, ~~and when connected to a network, the apparatus allows said local user to use brain wave enhanced interaction with remote users using corresponding apparatuses or to interact in at least one direction with capable remote distinct apparatus.~~

54-56 (Cancelled)

57. (Currently Amended) The apparatus of claim 4, further comprising one or more cameras including at least one video camera for video conferencing ~~and at least one transducer for receiving tactile input from said local user.~~

58. (New) A handheld device comprising:

a user input transducer;

a tactile output transducer for outputting stimuli perceptible by touch;

a processor in the handheld device processing an input from the user input transducer and sending an output to the tactile output transducer in a stand-alone mode without connection to an external processor; and

a transmitter for connecting the device to an external processor.

59. (New) The device of claim 58 further comprising a receiver for connecting the device to said another processor.

60. (New) The device of claim 58 wherein the handheld device is designed to fit comfortably in one hand of a user.

61. (New) The device of claim 58 wherein the transmitter is a component of a transceiver.

62. (New) The device of claim 61 wherein the transceiver is a first transceiver and the handheld device further comprises a second transceiver.

63. (New) The device of claim 62 wherein the first transceiver is a short range transceiver and the second transceiver is a long range transceiver.

64. (New) The device of claim 58 wherein the handheld device is a wireless phone.

65. (New) The device of claim 58 wherein the handheld device is a global positioning device.

66. (New) The device of claim 58 wherein the handheld device is a handheld computer.

67. (New) The device of claim 58 wherein the handheld device is a music device.

68. (New) The device of claim 58 wherein the handheld device is a handheld game console.

69. (New) The device of claim 58 wherein the transmitter is configured for transmission over a wired communication link.

70. (New) The device of claim 58 wherein the transmitter is configured for transmission over a wireless communication link.

71. (New) The device of claim 58 wherein the wireless communication link is an RF link.

72. (New) The device of claim 58 wherein the wireless communication link is an IR link.

73. (New) The device of claim 58 wherein said user input transducer comprises at least one manual input button.

74. (New) The device of claim 58 wherein said user input transducer comprises a manually touched input screen.

75. (New) The device of claim 58 wherein said user input transducer senses movement of the handheld device.

76. (New) The device of claim 58 wherein said user input transducer senses motion external to the handheld device.

77. (New) The device of claim 58 wherein said tactile output transducer produces a vibration of at least a portion of said handheld device.

78. (New) The device of claim 58 wherein the device performs at least two functions selected from the group of functions consisting of a wireless phone, a global positioning function, a handheld computer function, a music device function, a handheld game counsel function, a 3-D screen function, a camera function, a 3-D imaging function, a machine vision function, a medical device function, a therapy function and an exercise function.

79. (New) The device of claim 58 wherein said tactile output transducer produces stimuli that cause a bio-physical change to a portion of a user's body.

80. (New) A handheld device comprising:

a handheld frame;

a user input transducer attached to the handheld frame;

a tactile output transducer attached to the handheld frame for outputting stimuli perceptible by touch;

a processor in the handheld device processing an input from the user input transducer and sending an output to the tactile output transducer in a stand-alone mode without connection to an external device; and

a receiver attached to the handheld frame for connecting the handheld device to an external device.

81. (New) The device of claim 80 further comprising a support structure and wherein said tactile output transducer is attached to said support structure and said support structure is attached to said handheld frame.

82. A handheld device comprising:

a means for producing a user input signal;

a means for producing a tactile output stimuli perceptible by touch;

a processing means in the handheld device for processing an input from the user input signal and sending an output to the tactile output means in a stand-alone mode without connection to another processing means; and

a transmitting means in the handheld device for connecting the handheld device to said another processing means.

83. (New) A wireless phone comprising:

means for sending and receiving calls over a wireless network

a user input transducer;

a tactile output transducer for outputting stimuli perceptible by touch;

a processor in the wireless phone processing an input from the user input transducer and sending an output to the tactile output transducer in a stand-alone mode without input from said wireless network.

84. (New) A handheld device comprising:

a user input transducer in the handheld device actuable to produce a user input signal;

a processor in the handheld device processing the user input signal and generating an output signal in a stand-alone mode without connection to an external processor; and

an output transducer responsive to the output signal to output stimuli perceptible by touch; and

a transmitter for connecting the device to an external processor.

85. (New) A handheld device comprising:

a first transducer in the handheld device actuable to produce a first signal;

a processor in the handheld device processing the first signal and generating a second signal in a stand-alone mode without connection to an external processor; and a second transducer responsive to the second signal to output stimuli perceptible by touch; and

a transmitter for connecting the device to an external processor.